



ISO 9001  
Certificate



ISO 14001  
Certificate



Sigma head office:  
8F Two IFC  
10 Gukjegeumyung-ro, Youngdeungpo-gu  
Seoul 150-945, Korea

Distributor's office:



**SIGMA**

Reaching new heights  
[www.sigmaelevator.com](http://www.sigmaelevator.com)

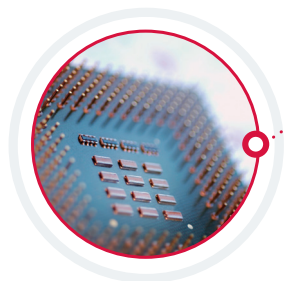
Sigma constantly endeavors to improve products. Please note that the information in this catalog is subject to change without prior notice.  
2018.09 printed in Korea / Revision 2



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## SIGMA Reaching new heights



### Engineered to be Safe & Reliable

Sigma products are engineered by highly qualified engineers thereby ensuring customers receive excellent products with reliable quality.



### Aesthetics Design Excellence

Sigma's international design centers are staffed with professionals who continue to pursue ideal aesthetic designs to satisfy customers needs.

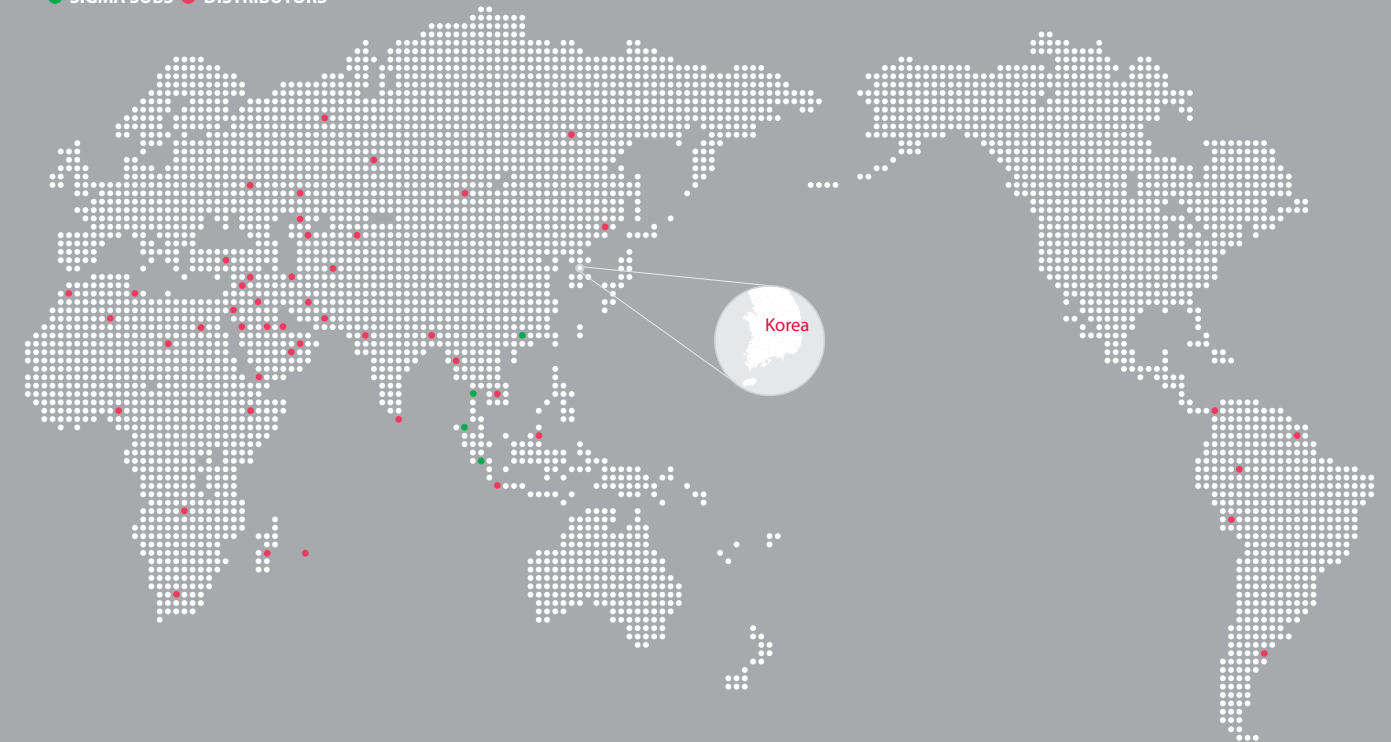


### Global Network

Sigma has served customers in more than 60 countries over the last 40 years.

Sigma has installed over 160,000 elevators worldwide since 1978

● SIGMA SUBS ● DISTRIBUTORS



Khalid Al Attar Tower  
U.A.E



Al Rames Tower  
Qatar



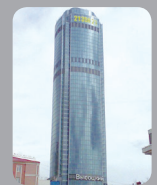
Darwaza Tower  
Kuwait



Vorobiev Gory  
Russia



Triumph Palace  
Russia



Antei  
Russia



Sheraton Hotel  
Puerto Rico



Baiyoke Tower  
Thailand



Grand Hyatt Hotel  
Indonesia



Emerald Tower  
Kazakhstan



LG Beijing Tower  
China



Juma Al Majid  
Tower  
U.A.E



Armada Tower  
U.A.E



Rostonskaya  
Russia



Shangri La Hotel  
Mongolia



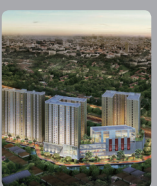
Plaza La  
Castellana  
Venezuela



Torre Global  
Bank  
Panama



Ocean  
Two  
Panama



Bassura Residence  
Indonesia





## ACRA enhancing the value of the building...

- ACRA maximizing energy savings
- ACRA enabling environment protections
- ACRA pursuing space savings
- ACRA providing ride comfort
- ACRA ensuring safety & reliability

# ACRA

The New Pinnacle of Gearless

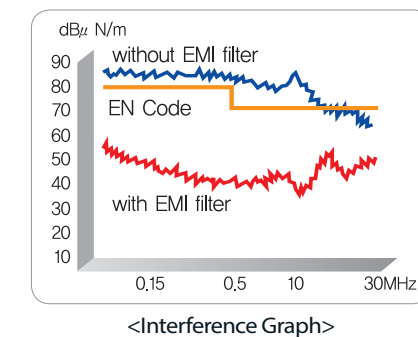
Green Future in Your Life

## Green Technology



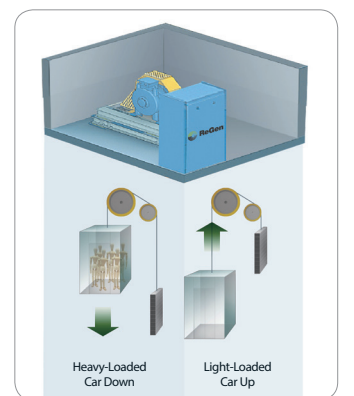
### Lubrication Free

The gearless machine does not need any lubrication to maintain the machine. The gearless technology helps to save about 1,400 liters of oil through the life-time of the elevator.



### Interference Prevention

The control panel with EMI filter prevents interference for electrical facilities. The effect of EMI filter meets or exceeds the worldwide standards on exposure to electromagnetic radiation.



<Regeneration>

### Regen System (Option)

ReGen drives significantly reduces energy demand and lowers overall building energy costs.

## e\*route (Option)

e\*route enables passengers to reach their destinations up to 55 percent faster, reducing waiting time and avoiding congestion. Moreover, the efficiency in elevator transportation reduces the number of elevators needed, hence it leads to reducing construction cost. e\*route contributes to greener environment as it reduces electrical energy consumption with its high operation efficiency.





# Reliable Quality & Upgraded Safety

## Reliable System

- Globally designed and manufactured
- Lower vibration and better ride quality
- UCMP & ACOP certified  
(Unintended Car Movement Protection)  
(Ascending Car Overspeed Protection)
- Efficient and reliable performance
- More reliable and better EMC performance
- Lower brake noise



Upgraded machine

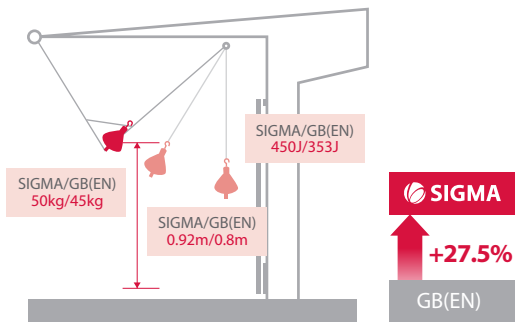


Controller with better performance

## Upgraded door operator



Door Impact test



## Main Safety Components

| Component          | SIGMA Requirements           | EN81 Requirements      |
|--------------------|------------------------------|------------------------|
| Safety Gear        | 25 freefall and runaway test | 4 freefall test        |
| Overspeed Governor | 25 continuous tripping       | 20 continuous tripping |
| Buffer             | 100 strike test              | 6 strike test          |

Safety Gear



Overspeed governor



Oil buffer



Baiyoke Tower  
Thailand

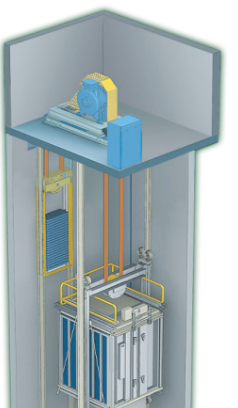


# Energy Saving & Field Friendly

## Energy Saving

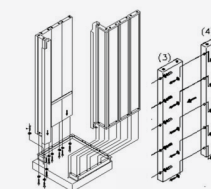
### Green

- LED light (long service life & power saving)
- Sleep mode for car lighting and fan
- Regeneration Drive (Option)

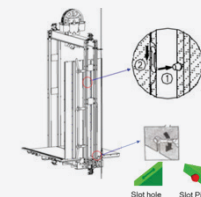


## Field Friendly

Use bolt & nut to connect the car wall in hoistway



Install car panel inside car



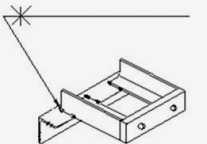
### Key Benefits

High efficiency slot connection, saving labor cost

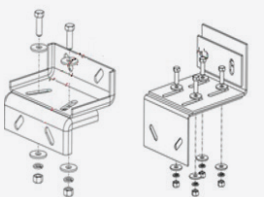
Jobsite safety improvement

No Welding  
No Pollution

Welding type rail bracket



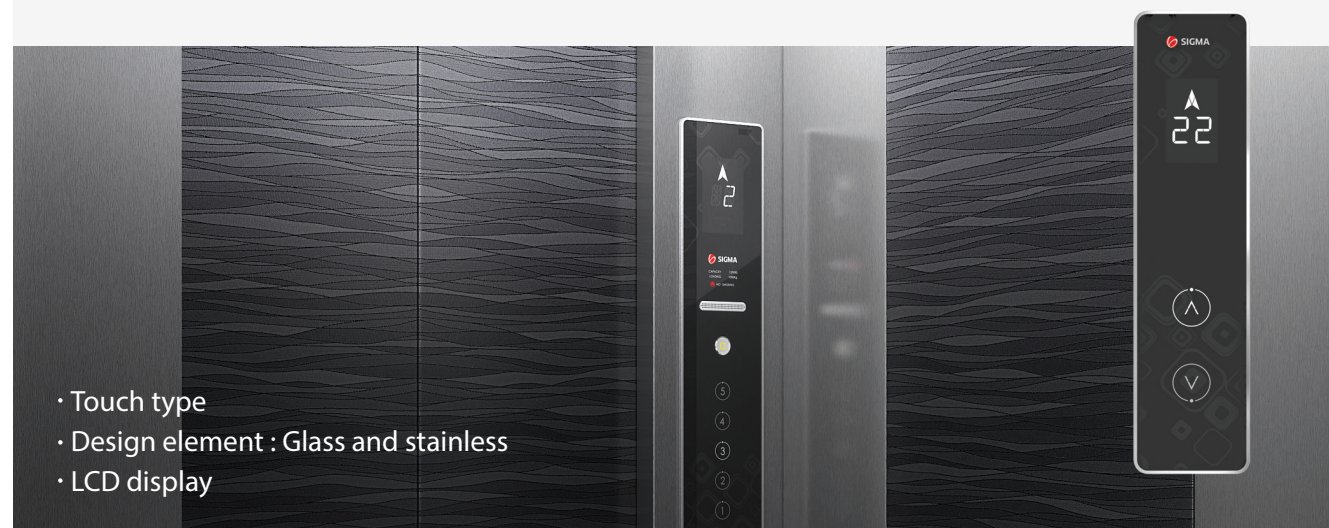
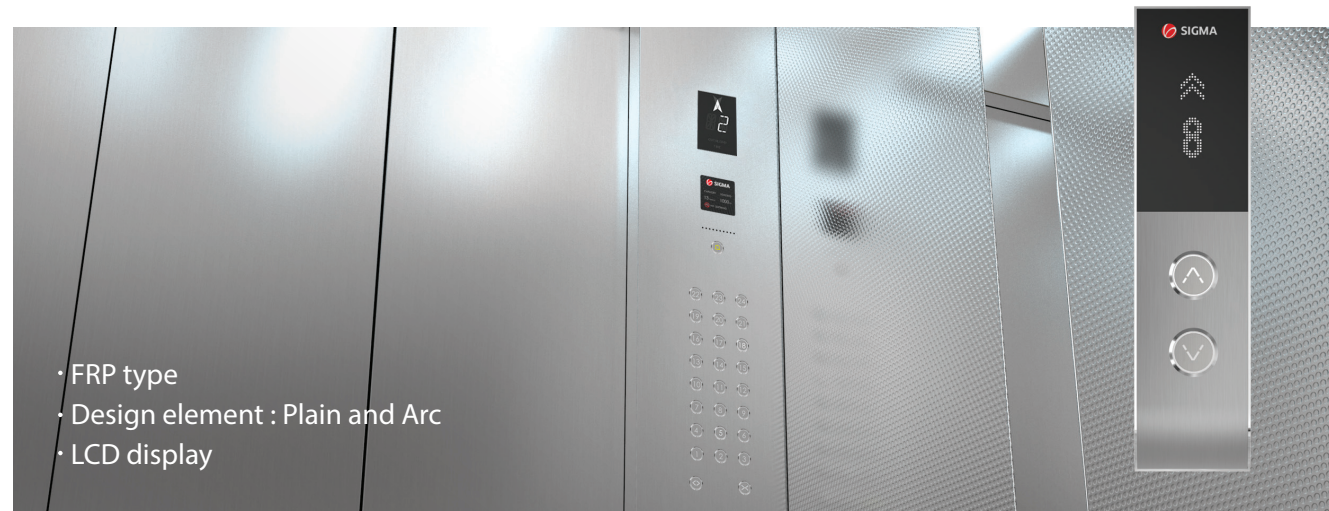
Welding-free type rail bracket





# New Fixtures & Materials

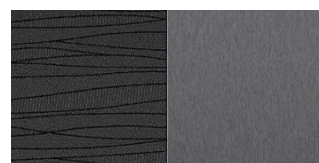
## New Fixtures



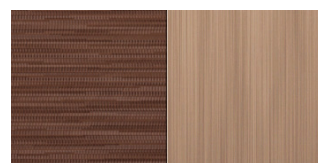
## New Materials



White



Black



Bronze





Modern | Black |



| Front View |



| Rear View |

Specification

|                 |                 |
|-----------------|-----------------|
| CEILING         | C-PS1           |
| COP             | COP30VG-C       |
| CAR WALL FINISH | PCM-S01+PCM-S02 |
| HANDRAIL        | HR04POL         |
| FLOOR           | DT01            |

! The actual product can be different (changed) depending on design  
Car wall image can be different (changed) depending on capacity

Modern | Bronze |



| Front View |



| Rear View |

Specification

|                 |                 |
|-----------------|-----------------|
| CEILING         | C-LA1           |
| COP             | COP30VG-C       |
| CAR WALL FINISH | PCM-S04+PCM-S07 |
| HANDRAIL        | HR04POL         |
| FLOOR           | DT03            |

! The actual product can be different (changed) depending on design  
Car wall image can be different (changed) depending on capacity



Modern | White |



Front View

Specification

|                 |                 |
|-----------------|-----------------|
| CEILING         | CL-31           |
| COP             | CBL-85CN        |
| CAR WALL FINISH | PCM-S05+PCM-S06 |
| HANDRAIL        | HR04POL         |
| FLOOR           | DT01            |



Rear View

! The actual product can be different (changed) depending on design  
Car wall image can be different (changed) depending on capacity

Classic | Hairline |



Front View

Specification

|                 |  |
|-----------------|--|
| CEILING         | C-NL2  |
| COP             | CBX-16C  |
| CAR WALL FINISH | Stainless Steel<br>Hairline Etching<br>(EW2-085) |
| HANDRAIL        | HR04POL  |
| FLOOR           | DE313  |



Rear View

! The actual product can be different (changed) depending on design  
Car wall image can be different (changed) depending on capacity



Entrance



JAMB FINISH Wide Tapered Jamb(STSMR)  
DOOR FINISH PCM-S07  
HALL IND & BUTTON VHB30BG-C



JAMB FINISH Narrow Jamb(STSMR)  
DOOR FINISH PCM-S01  
HALL IND & BUTTON VHB30BG-C

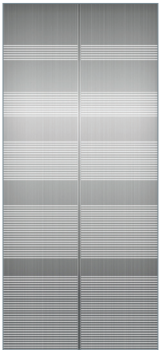


JAMB FINISH Narrow Jamb(STSHL)  
DOOR FINISH STSHL  
HALL IND & BUTTON VIX-M652




JAMB FINISH Wide Tapered Jamb with Transom Panel(STSHL)  
DOOR FINISH Stainless Steel Hairline Etching Finish(EH1-085)  
HALL IND HIX-A162  
HALL BUTTON HBM-S49


Etching Pattern




EH3-034




EH1-059




EH1-067




EH1-080




EH1-082




EH1-084



EH1-085

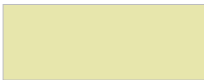


EH1-086




EH1-087


Colors




RAL1015




RAL5019




RAL6019




RAL9005




RAL9022




RAL140\_M




RAL150\_M




RAL7048




RAL1001



RAL1036



RAL1012



RAL9003

The actual product can be different (changed) depending on design

The actual product can be different (changed) depending on design



# Ceiling

## Standard



C-NS1



C-NS3



C-VS2



C-RL2

## Option



C-NL2



C-LA1

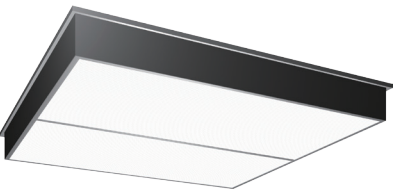


CL-31



C-LN1

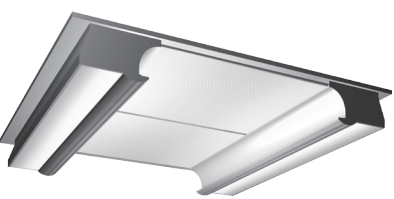
## Luxury



C-ES1



C-ES2



C-ES3



C-PS1

# COP

## Standard



CBX-22C



COP27H-A



COP25H-A

## Option



CBL-85CN



CBX-16C

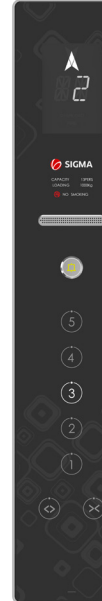
## Luxury



COP29FH-C



CBX-64C



COP30VG-C

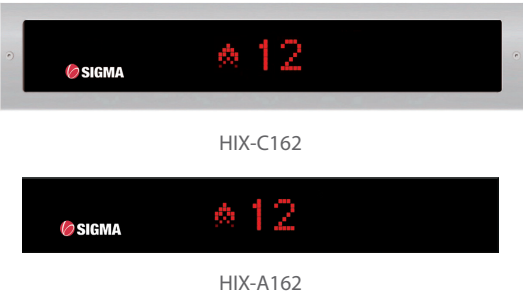
! The actual product can be different (changed) depending on design

! The actual product can be different (changed) depending on design



HPI & HBT

Standard



Option



VPI

Standard



Option



Luxury

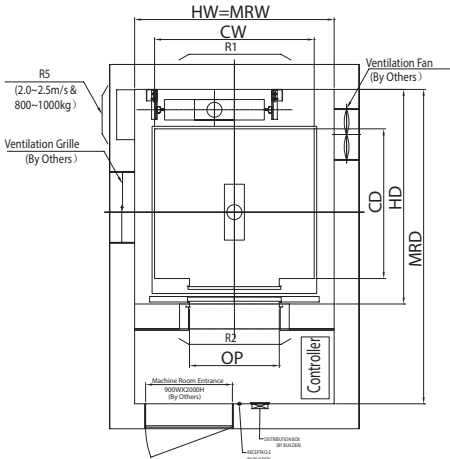


 The actual product can be different (changed) depending on design

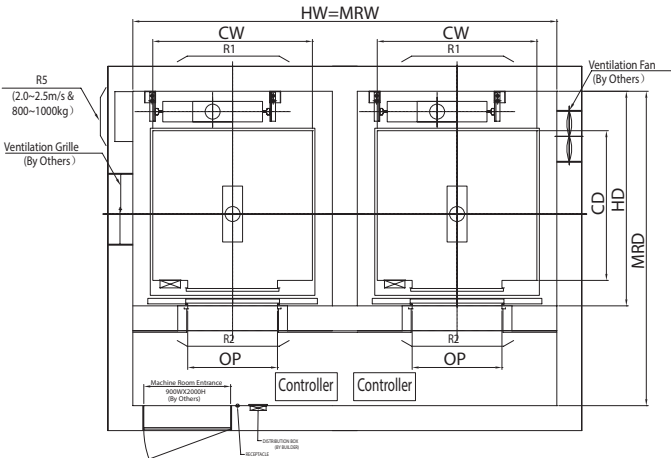
Technical Data

| Hoistway & Machine Room Plan

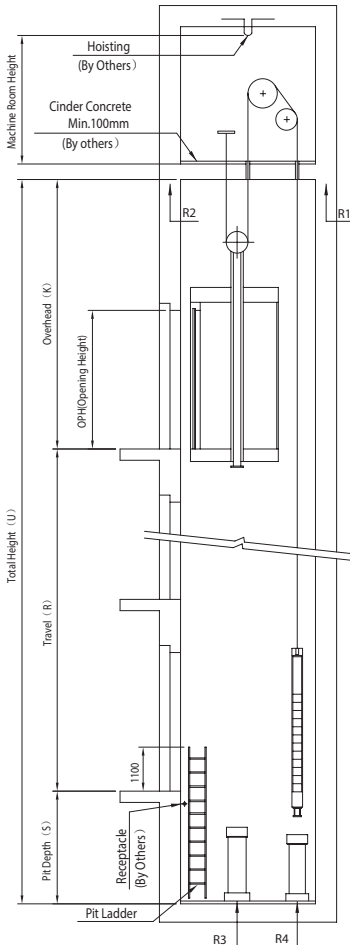
[Simplex]



[Duplex]



| Hoistway Section



| Overhead, Pit & Machine Room Height

(Based on CRH=2395)

| Speed(m/s) | Load(kg)  | Max Rise(m) | Overhead(mm) | Pit Depth(mm) | Machine Room Height(mm) |
|------------|-----------|-------------|--------------|---------------|-------------------------|
| 1.0        | 450~1000  | 50          | 4150         | 1400          | 2300                    |
|            | 1150~1600 |             | 4200         |               | 2500                    |
| 1.5        | 550~1000  | 80          | 4350         | 1550          | 2300                    |
|            | 1150~1600 |             | 4400         |               | 2500                    |
| 1.75       | 550~1000  | 100         | 4450         | 1600          | 2300                    |
|            | 1150~1600 |             | 4500         |               | 2500                    |
| 2.0        | 800~1000  | 110         | 4550         | 1650          | 2300                    |
|            | 1150~1600 |             | 4600         |               | 2500                    |
| 2.5        | 800~1000  | 130         | 4800         | 1900          | 2300                    |
|            | 1150~1600 |             |              |               | 2500                    |



HPI & HBT

Standard



HIX-C162



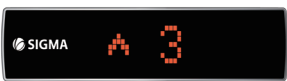
HIX-A162



HIL-A193



HIL-C193



HIX-A201\*



HIX-A202\*



HBM-S45



HBM-RA55



HBM-R95



HBM-S49



HBM-SA95



HBM-S99



HBM-RBBS



HBM-R65



HBM-RC55H\*



HBM-RCASH\*

VPI

Standard



VIX-M652



VIX-M692



VIX-MA52S



VIX-MA92S



VIX-MC52SH



VIX-MCA3SH\*



VIL-MBB2SN



VHB30BG-C



VHB29H-C



VHB27H-A



VHB25H-A

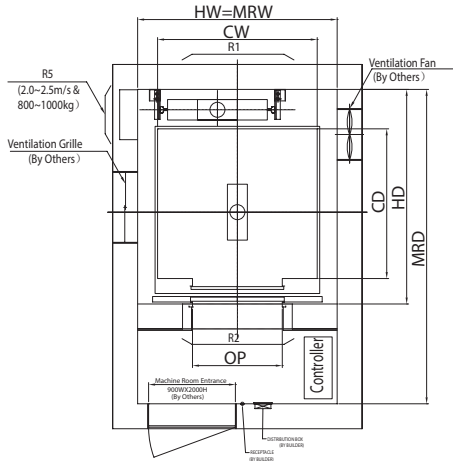
**Note** The options with asterisk sign (\*) are required to consult with Sigma Sales prior to selection

**!** The actual product can be different (changed) depending on design

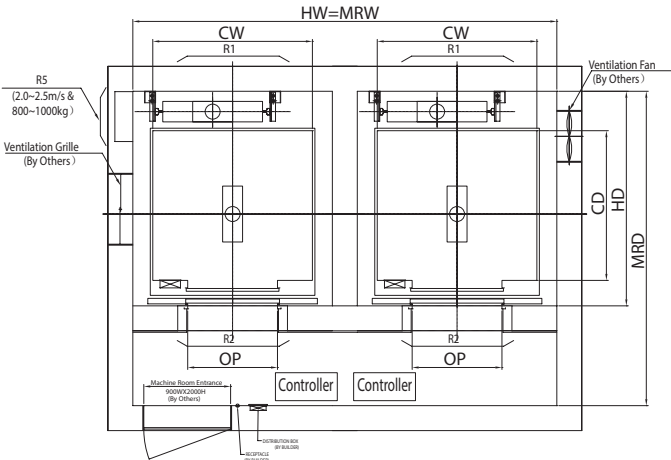
Technical Data

| Hoistway & Machine Room Plan

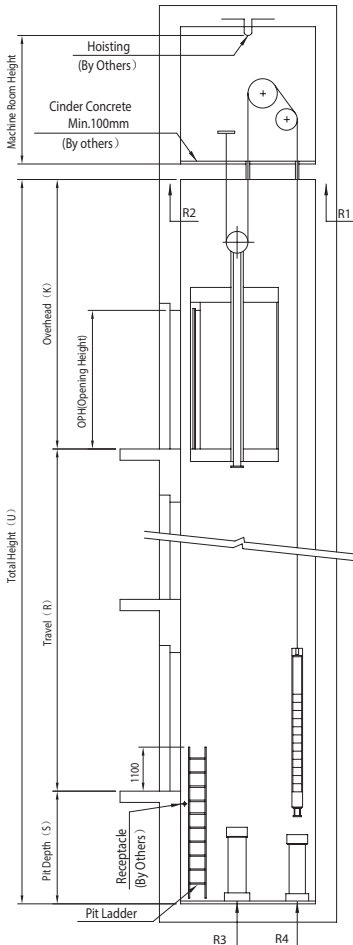
[Simplex]



[Duplex]



| Hoistway Section



| Overhead, Pit & Machine Room Height

(Based on CRH=2395)

| Speed(m/s) | Load(kg)  | Max Rise(m) | Overhead(mm) | Pit Depth(mm) | Machine Room Height(mm) |
|------------|-----------|-------------|--------------|---------------|-------------------------|
| 1.0        | 450~1000  | 50          | 4150         | 1400          | 2300                    |
|            | 1150~1600 |             | 4200         |               | 2500                    |
| 1.5        | 550~1000  | 80          | 4350         | 1550          | 2300                    |
|            | 1150~1600 |             | 4400         |               | 2500                    |
| 1.75       | 550~1000  | 100         | 4450         | 1600          | 2300                    |
|            | 1150~1600 |             | 4500         |               | 2500                    |
| 2.0        | 800~1000  | 110         | 4550         | 1650          | 2300                    |
|            | 1150~1600 |             | 4600         |               | 2500                    |
| 2.5        | 800~1000  | 130         | 4800         | 1900          | 2300                    |
|            | 1150~1600 |             |              |               | 2500                    |



# Technical Data

| Layout Dimensions | Speed : 1.0 m/s

[Standard] (Unit : mm)

| Speed<br>(m/s) | Capacity |          | Entrance<br>Opening<br>(mm) | Car Size |      | Hoistway Size |      |        |      | Machine Room Size |      |        |      | Reation Load (N) |       |        |        |
|----------------|----------|----------|-----------------------------|----------|------|---------------|------|--------|------|-------------------|------|--------|------|------------------|-------|--------|--------|
|                |          |          |                             |          |      | Simplex       |      | Duplex |      | Simplex           |      | Duplex |      | Machine Room     |       | Pit    |        |
|                | Person   | Load(kg) |                             | CW       | CD   | HW            | HD   | HW     | HD   | MW                | MD   | MW     | MD   | R1               | R2    | R3     | R4     |
| 1.0            | 6        | 450      | 700                         | 1150     | 1030 | 1950          | 1750 | 4100   | 1750 | 1950              | 1750 | 4100   | 1750 | 34500            | 20500 | 67500  | 58700  |
|                | 7        | 550      | 800                         | 1400     | 1030 | 1950          | 1750 | 4100   | 1750 | 1950              | 1750 | 4100   | 1750 | 34500            | 20500 | 73200  | 62400  |
|                | 8        | 630      | 800                         | 1400     | 1100 | 1950          | 1800 | 4100   | 1800 | 1950              | 1800 | 4100   | 1800 | 34500            | 20500 | 75600  | 63800  |
|                | 9        | 680      | 800                         | 1400     | 1250 | 1950          | 1950 | 4100   | 1950 | 1950              | 1950 | 4100   | 1950 | 39500            | 23000 | 78600  | 65300  |
|                | 10       | 800      | 800                         | 1400     | 1350 | 1950          | 2050 | 4100   | 2050 | 1950              | 2050 | 4100   | 2050 | 39500            | 23000 | 84600  | 68900  |
|                | 12       | 900      | 900                         | 1600     | 1350 | 2150          | 2050 | 4500   | 2050 | 2150              | 2050 | 4500   | 2050 | 50000            | 28000 | 90900  | 73200  |
|                | 13       | 1000     | 900                         | 1600     | 1500 | 2150          | 2200 | 4500   | 2200 | 2150              | 2200 | 4500   | 2200 | 50000            | 28000 | 108300 | 88700  |
|                |          |          |                             | 1600     | 1400 | 2150          | 2100 | 4500   | 2100 | 2150              | 2100 | 4500   | 2100 | 50000            | 28000 | 108300 | 88700  |
|                | 15       | 1150     | 1000                        | 1800     | 1500 | 2400          | 2250 | 5000   | 2250 | 2400              | 2250 | 5000   | 2250 | 84600            | 47600 | 108700 | 86200  |
|                |          |          | 1100                        | 2000     | 1350 | 2600          | 2100 | 5400   | 2100 | 2600              | 2100 | 5400   | 2100 |                  |       |        |        |
|                | 18       | 1350     | 1000                        | 1800     | 1700 | 2400          | 2450 | 5000   | 2450 | 2400              | 2450 | 5000   | 2450 | 98400            | 53200 | 130000 | 103600 |
|                |          |          | 1100                        | 2000     | 1500 | 2600          | 2250 | 5400   | 2250 | 2600              | 2250 | 5400   | 2250 |                  |       |        |        |
|                | 21       | 1600     | 1100                        | 2000     | 1750 | 2600          | 2500 | 5400   | 2500 | 2600              | 2500 | 5400   | 2500 | 108000           | 57900 | 143900 | 112500 |
|                |          |          |                             | 2150     | 1600 | 2750          | 2350 | 5700   | 2350 | 2750              | 2350 | 5700   | 2350 |                  |       |        |        |

[EN Code]

| Speed<br>(m/s) | Capacity |          | Entrance<br>Opening<br>(mm) | Car Size |      | Hoistway Size |      |        |      | Machine Room Size |      |        |      | Reation Load (N) |       |        |        |
|----------------|----------|----------|-----------------------------|----------|------|---------------|------|--------|------|-------------------|------|--------|------|------------------|-------|--------|--------|
|                |          |          |                             |          |      | Simplex       |      | Duplex |      | Simplex           |      | Duplex |      | Machine Room     |       | Pit    |        |
|                | Person   | Load(kg) |                             | CW       | CD   | HW            | HD   | HW     | HD   | MW                | MD   | MW     | MD   | R1               | R2    | R3     | R4     |
| 1.0            | 9        | 680      | 800                         | 1350     | 1250 | 1900          | 1950 | 4000   | 1950 | 1900              | 1950 | 4000   | 1950 | 39500            | 23000 | 78600  | 65300  |
|                | 10       | 800      | 800                         | 1400     | 1350 | 1950          | 2050 | 4100   | 2050 | 1950              | 2050 | 4100   | 2050 | 39500            | 23000 | 84600  | 68900  |
|                | 12       | 900      | 900                         | 1600     | 1300 | 2150          | 2000 | 4500   | 2000 | 2150              | 2000 | 4500   | 2000 | 50000            | 28000 | 90900  | 73200  |
|                | 13       | 1000     | 900                         | 1600     | 1500 | 2150          | 2200 | 4500   | 2200 | 2150              | 2200 | 4500   | 2200 | 50000            | 28000 | 108300 | 88700  |
|                |          |          |                             | 1600     | 1400 | 2150          | 2100 | 4500   | 2100 | 2150              | 2100 | 4500   | 2100 | 50000            | 28000 | 108300 | 88700  |
|                | 15       | 1150     | 1000                        | 1800     | 1500 | 2400          | 2250 | 5000   | 2250 | 2400              | 2250 | 5000   | 2250 | 84600            | 47600 | 108700 | 86200  |
|                |          |          | 1100                        | 2000     | 1350 | 2600          | 2100 | 5400   | 2100 | 2600              | 2100 | 5400   | 2100 |                  |       |        |        |
|                | 18       | 1350     | 1000                        | 1800     | 1700 | 2400          | 2450 | 5000   | 2450 | 2400              | 2450 | 5000   | 2450 | 98400            | 53200 | 130000 | 103600 |
|                |          |          | 1100                        | 2000     | 1500 | 2600          | 2250 | 5400   | 2250 | 2600              | 2250 | 5400   | 2250 |                  |       |        |        |
|                | 21       | 1600     | 1100                        | 2000     | 1750 | 2600          | 2500 | 5400   | 2500 | 2600              | 2500 | 5400   | 2500 | 108000           | 57900 | 143900 | 112500 |
|                |          |          |                             | 2150     | 1600 | 2750          | 2350 | 5700   | 2350 | 2750              | 2350 | 5700   | 2350 |                  |       |        |        |

[Malaysia]

| Speed<br>(m/s) | Capacity |          | Entrance<br>Opening<br>(mm) | Car Size |      | Hoistway Size |      |        |      | Machine Room Size |      |        |      | Reation Load (N) |       |        |        |
|----------------|----------|----------|-----------------------------|----------|------|---------------|------|--------|------|-------------------|------|--------|------|------------------|-------|--------|--------|
|                |          |          |                             |          |      | Simplex       |      | Duplex |      | Simplex           |      | Duplex |      | Machine Room     |       | Pit    |        |
|                | Person   | Load(kg) |                             | CW       | CD   | HW            | HD   | HW     | HD   | MW                | MD   | MW     | MD   | R1               | R2    | R3     | R4     |
| 1.0            | 6        | 410      | 700                         | 1150     | 1000 | 1950          | 1700 | 4100   | 1700 | 1950              | 1700 | 4100   | 1700 | 34500            | 20500 | 64900  | 56900  |
|                | 8        | 545      | 800                         | 1400     | 1030 | 1950          | 1750 | 4100   | 1750 | 1950              | 1750 | 4100   | 1750 | 34500            | 20500 | 72000  | 61400  |
|                | 9        | 615      | 800                         | 1400     | 1150 | 1950          | 1850 | 4100   | 1850 | 1950              | 1850 | 4100   | 1850 | 39500            | 23000 | 75400  | 63400  |
|                | 10       | 685      | 800                         | 1400     | 1250 | 1950          | 1950 | 4100   | 1950 | 1950              | 1950 | 4100   | 1950 | 39500            | 23000 | 78800  | 65300  |
|                | 11       | 750      | 800                         | 1400     | 1350 | 1950          | 2050 | 4100   | 2050 | 1950              | 2050 | 4100   | 2050 | 39500            | 23000 | 82300  | 67500  |
|                | 13       | 885      | 900                         | 1600     | 1350 | 2150          | 2050 | 4500   | 2050 | 2150              | 2050 | 4500   | 2050 | 50000            | 28000 | 90000  | 72700  |
|                | 15       | 1025     | 900                         | 1600     | 1550 | 2150          | 2250 | 4500   | 2250 | 2150              | 2250 | 4500   | 2250 | 50000            | 28000 | 110400 | 90300  |
|                | 17       | 1160     | 1000                        | 1800     | 1500 | 2400          | 2250 | 5000   | 2250 | 2400              | 2250 | 5000   | 2250 | 84600            | 47600 | 108700 | 86200  |
|                | 20       | 1365     | 1000                        | 1800     | 1750 | 2400          | 2500 | 5000   | 2500 | 2400              | 2500 | 5000   | 2500 | 98400            | 53200 | 130000 | 103600 |
|                |          |          | 1100                        | 2000     | 1550 | 2600          | 2300 | 5400   | 2300 | 2600              | 2300 | 5400   | 2300 |                  |       |        |        |
|                | 24       | 1635     | 1100                        | 2000     | 1800 | 2600          | 2550 | 5400   | 2550 | 2600              | 2550 | 5400   | 2550 | 108000           | 57900 | 143900 | 112500 |

# Technical Data

| Layout Dimensions | Speed : 1.5m/s ~ 1.75m/s

[Standard] (Unit : mm)

| Speed<br>(m/s) | Capacity |          | Entrance<br>Opening<br>(mm) | Car Size |      | Hoistway Size |      |        |      | Machine Room Size |      |        |      | Reation Load (N) |       |        |        |
|----------------|----------|----------|-----------------------------|----------|------|---------------|------|--------|------|-------------------|------|--------|------|------------------|-------|--------|--------|
|                |          |          |                             |          |      | Simplex       |      | Duplex |      | Simplex           |      | Duplex |      | Machine Room     |       | Pit    |        |
|                | Person   | Load(kg) |                             | CW       | CD   | HW            | HD   | HW     | HD   | MW                | MD   | MW     | MD   | R1               | R2    | R3     | R4     |
| 1.5~1.75       | 7        | 550      | 800                         | 1400     | 1030 | 1950          | 1750 | 4100   | 1750 | 1950              | 1750 | 4100   | 1750 | 34500            | 20500 | 73200  | 62400  |
|                | 8        | 630      | 800                         | 1400     | 1100 | 1950          | 1800 | 4100   | 1800 | 1950              | 1800 | 4100   | 1800 | 34500            | 20500 | 75600  | 63900  |
|                | 9        | 680      | 800                         | 1400     | 1250 | 1950          | 1950 | 4100   | 1950 | 1950              | 1950 | 4100   | 1950 | 39500            | 23000 | 78600  | 65300  |
|                | 10       | 800      | 800                         | 1400     | 1350 | 1950          | 2050 | 4100   | 2050 | 1950              | 2050 | 4100   | 2050 | 39500            | 23000 | 84600  | 68900  |
|                | 12       | 900      | 900                         | 1600     | 1350 | 2150          | 2050 | 4500   | 2050 | 2150              | 2050 | 4500   | 2050 | 50000            | 28000 | 90900  | 73200  |
|                | 13       | 1000     | 900                         | 1600     | 1500 | 2150          | 2200 | 4500   | 2200 | 2150              | 2200 | 4500   | 2200 | 50000            | 28000 | 108300 | 88700  |
|                |          |          |                             | 1600     | 1400 | 2150          | 2100 | 4500   | 2100 | 2150              | 2100 | 4500   | 2100 | 50000            | 28000 | 108300 | 88700  |
|                | 15       | 1150     | 1000                        | 1800     | 1500 | 2400          | 2250 | 5000   | 2250 | 2400              | 2250 | 5000   | 2250 | 84600            | 47600 | 108700 | 86200  |
|                |          |          | 1100                        | 2000     | 1350 | 2600          | 2100 | 5400   | 2100 | 2600              | 2100 | 5400   | 2100 |                  |       |        |        |
|                | 18       | 1350     | 1000                        | 1800     | 1700 | 2400          | 2450 | 5000   | 2450 | 2400              | 2450 | 5000   | 2450 | 98400            | 53200 | 130100 | 103600 |
|                |          |          | 1100                        | 2000     | 1500 | 2600          | 2250 | 5400   | 2250 | 2600              | 2250 | 5400   | 2250 |                  |       |        |        |
|                | 21       | 1600     | 1100                        | 2000     | 1750 | 2600          | 2500 | 5400   | 2500 | 2600              | 2500 | 5400   | 2500 | 108000           | 58000 | 143900 | 112500 |
|                |          |          |                             | 2150     | 1600 | 2750          | 2350 | 5700   | 2350 | 2750              | 2350 | 5700   | 2350 |                  |       |        |        |

[EN Code]

| Speed<br>(m/s) | Capacity |          | Entrance<br>Opening<br>(mm) | Car Size |      | Hoistway Size |      |        |      | Machine Room Size |      |        |      | Reation Load (N) |       |        |        |
|----------------|----------|----------|-----------------------------|----------|------|---------------|------|--------|------|-------------------|------|--------|------|------------------|-------|--------|--------|
|                |          |          |                             |          |      | Simplex       |      | Duplex |      | Simplex           |      | Duplex |      | Machine Room     |       | Pit    |        |
|                | Person   | Load(kg) |                             | CW       | CD   | HW            | HD   | HW     | HD   | MW                | MD   | MW     | MD   | R1               | R2    | R3     | R4     |
| 1.5~1.75       | 9        | 680      | 800                         | 1350     | 1250 | 1900          | 1950 | 4000   | 1950 | 1900              | 1950 | 4000   | 1950 | 39500            | 23000 | 78600  | 65300  |
|                | 10       | 800      | 800                         | 1400     | 1350 | 1950          | 2050 | 4100   | 2050 | 1950              | 2050 | 4100   | 2050 | 39500            | 23000 | 84600  | 68900  |
|                | 12       | 900      | 900                         | 1600     | 1300 | 2150          | 2000 | 4500   | 2000 | 2150              | 2000 | 4500   | 2000 | 50000            | 28000 | 90900  | 73200  |
|                | 13       | 1000     | 900                         | 1600     | 1500 | 2150          | 2200 | 4500   | 2200 | 2150              | 2200 | 4500   | 2200 | 50000            | 28000 | 108300 | 88700  |
|                |          |          |                             | 1600     | 1400 | 2150          | 2100 | 4500   | 2100 | 2150              | 2100 | 4500   | 2100 | 50000            | 28000 | 108300 | 88700  |
|                | 15       | 1150     | 1000                        | 1800     | 1500 | 2400          | 2250 | 5000   | 2250 | 2400              | 2250 | 5000   | 2250 | 84600            | 47600 | 108700 | 86200  |
|                |          |          | 1100                        | 2000     | 1350 | 2600          | 2100 | 5400   | 2100 | 2600              | 2100 | 5400   | 2100 |                  |       |        |        |
|                | 18       | 1350     | 1000                        | 1800     | 1700 | 2400          | 2450 | 5000   | 2450 | 2400              | 2450 | 5000   | 2450 | 98400            | 53200 | 130100 | 103600 |
|                |          |          | 1100                        | 2000     | 1500 | 2600          | 2250 | 5400   | 2250 | 2600              | 2250 | 5400   | 2250 |                  |       |        |        |
|                | 21       | 1600     | 1100                        | 2000     | 1750 | 2600          | 2500 | 5400   | 2500 | 2600              | 2500 | 5400   | 2500 | 108000           | 58000 | 143900 | 112500 |
|                |          |          |                             | 2150     | 1600 | 2750          | 2350 | 5700   | 2350 | 2750              | 2350 | 5700   | 2350 |                  |       |        |        |



# Technical Data

| Layout Dimensions | Speed : 2.0m/s ~ 2.5m/s

[Standard] (Unit : mm)

| Speed<br>(m/s) | Capacity |          | Entrance<br>Opening<br>(mm) | Car Size |      | Hoistway Size |      |        |      | Machine Room Size |      |        |      | Reation Load (N) |       |      |        |        |  |
|----------------|----------|----------|-----------------------------|----------|------|---------------|------|--------|------|-------------------|------|--------|------|------------------|-------|------|--------|--------|--|
|                |          |          |                             |          |      | Simplex       |      | Duplex |      | Simplex           |      | Duplex |      | Machine Room     |       |      | Pit    |        |  |
|                | Person   | Load(kg) |                             | CW       | CD   | HW            | HD   | HW     | HD   | MW                | MD   | MW     | MD   | R1               | R2    | R5   | R3     | R4     |  |
| 2.0~2.5        | 10       | 800      | 800                         | 1400     | 1350 | 1950          | 2050 | 4100   | 2050 | 1950              | 2050 | 4100   | 2050 | 45000            | 27500 | 6000 | 102100 | 86400  |  |
|                | 12       | 900      | 900                         | 1600     | 1350 | 2150          | 2050 | 4500   | 2050 | 2150              | 2050 | 4500   | 2050 | 54500            | 31500 | 7000 | 109400 | 91700  |  |
|                | 13       | 1000     | 900                         | 1600     | 1500 | 2150          | 2200 | 4500   | 2200 | 2150              | 2200 | 4500   | 2200 | 54500            | 31500 | 7000 | 114500 | 94900  |  |
|                |          |          |                             | 1600     | 1400 | 2150          | 2100 | 4500   | 2100 | 2150              | 2100 | 4500   | 2100 | 54500            | 31500 | 7000 | 114500 | 94900  |  |
|                | 15       | 1150     | 1000                        | 1800     | 1500 | 2400          | 2250 | 5000   | 2250 | 2400              | 2250 | 5000   | 2250 | 123000           | 82500 | -    | 169200 | 129700 |  |
|                |          |          | 1100                        | 2000     | 1350 | 2600          | 2100 | 5400   | 2100 | 2600              | 2100 | 5400   | 2100 |                  |       |      |        |        |  |
|                | 18       | 1350     | 1000                        | 1800     | 1700 | 2400          | 2450 | 5000   | 2450 | 2400              | 2450 | 5000   | 2450 | 131000           | 88500 | -    | 180400 | 135500 |  |
|                |          |          | 1100                        | 2000     | 1500 | 2600          | 2250 | 5400   | 2250 | 2600              | 2250 | 5400   | 2250 |                  |       |      |        |        |  |
|                | 21       | 1600     | 1100                        | 2000     | 1750 | 2600          | 2500 | 5400   | 2500 | 2600              | 2500 | 5400   | 2500 | 139000           | 93500 | -    | 196000 | 144200 |  |
|                |          |          |                             | 2150     | 1600 | 2750          | 2350 | 5700   | 2350 | 2750              | 2350 | 5700   | 2350 |                  |       |      |        |        |  |

[EN Code]

| Speed<br>(m/s) | Capacity |          | Entrance<br>Opening<br>(mm) | Car Size |      | Hoistway Size |      |        |      | Machine Room Size |      |        |      | Reation Load (N) |       |      |        |        |  |
|----------------|----------|----------|-----------------------------|----------|------|---------------|------|--------|------|-------------------|------|--------|------|------------------|-------|------|--------|--------|--|
|                |          |          |                             |          |      | Simplex       |      | Duplex |      | Simplex           |      | Duplex |      | Machine Room     |       |      | Pit    |        |  |
|                | Person   | Load(kg) |                             | CW       | CD   | HW            | HD   | HW     | HD   | MW                | MD   | MW     | MD   | R1               | R2    | R5   | R3     | R4     |  |
| 2.0~2.5        | 10       | 800      | 800                         | 1400     | 1350 | 1950          | 2050 | 4100   | 2050 | 1950              | 2050 | 4100   | 2050 | 45000            | 27500 | 6000 | 102100 | 86400  |  |
|                | 12       | 900      | 900                         | 1600     | 1300 | 2150          | 2000 | 4500   | 2000 | 2150              | 2000 | 4500   | 2000 | 54500            | 31500 | 7000 | 109400 | 91700  |  |
|                | 13       | 1000     | 900                         | 1600     | 1500 | 2150          | 2200 | 4500   | 2200 | 2150              | 2200 | 4500   | 2200 | 54500            | 31500 | 7000 | 114500 | 94900  |  |
|                |          |          |                             | 1600     | 1400 | 2150          | 2100 | 4500   | 2100 | 2150              | 2100 | 4500   | 2100 | 54500            | 31500 | 7000 | 114500 | 94900  |  |
|                | 15       | 1150     | 1000                        | 1800     | 1500 | 2400          | 2250 | 5000   | 2250 | 2400              | 2250 | 5000   | 2250 | 123000           | 82500 | -    | 169200 | 129700 |  |
|                |          |          | 1100                        | 2000     | 1350 | 2600          | 2100 | 5400   | 2100 | 2600              | 2100 | 5400   | 2100 |                  |       |      |        |        |  |
|                | 18       | 1350     | 1000                        | 1800     | 1700 | 2400          | 2450 | 5000   | 2450 | 2400              | 2450 | 5000   | 2450 | 131000           | 88500 | -    | 180400 | 135500 |  |
|                |          |          | 1100                        | 2000     | 1500 | 2600          | 2250 | 5400   | 2250 | 2600              | 2250 | 5400   | 2250 |                  |       |      |        |        |  |
|                | 21       | 1600     | 1100                        | 2000     | 1750 | 2600          | 2500 | 5400   | 2500 | 2600              | 2500 | 5400   | 2500 | 139000           | 93500 | -    | 196000 | 144200 |  |
|                |          |          |                             | 2150     | 1600 | 2750          | 2350 | 5700   | 2350 | 2750              | 2350 | 5700   | 2350 |                  |       |      |        |        |  |

[Malaysia]

| Speed<br>(m/s) | Capacity |          | Entrance<br>Opening<br>(mm) | Car Size |      | Hoistway Size |      |        |      | Machine Room Size |      |        |      | Reation Load (N) |       |      |        |        |  |
|----------------|----------|----------|-----------------------------|----------|------|---------------|------|--------|------|-------------------|------|--------|------|------------------|-------|------|--------|--------|--|
|                |          |          |                             |          |      | Simplex       |      | Duplex |      | Simplex           |      | Duplex |      | Machine Room     |       |      | Pit    |        |  |
|                | Person   | Load(kg) |                             | CW       | CD   | HW            | HD   | HW     | HD   | MW                | MD   | MW     | MD   | R1               | R2    | R5   | R3     | R4     |  |
| 2.0~2.5        | 11       | 750      | 800                         | 1400     | 1350 | 1950          | 2050 | 4100   | 2050 | 1950              | 2050 | 4100   | 2050 | 45000            | 27500 | 6000 | 100000 | 85300  |  |
|                | 13       | 885      | 900                         | 1600     | 1350 | 2150          | 2050 | 4500   | 2050 | 2150              | 2050 | 4500   | 2050 | 54500            | 31500 | 7000 | 108800 | 91500  |  |
|                | 15       | 1025     | 900                         | 1600     | 1550 | 2150          | 2250 | 4500   | 2250 | 2150              | 2250 | 4500   | 2250 | 54500            | 31500 | 7000 | 116600 | 96500  |  |
|                | 17       | 1160     | 1000                        | 1800     | 1500 | 2400          | 2250 | 5000   | 2250 | 2400              | 2250 | 5000   | 2250 | 123000           | 82500 | -    | 169200 | 129700 |  |
|                | 20       | 1365     | 1000                        | 1800     | 1750 | 2400          | 2500 | 5000   | 2500 | 2400              | 2500 | 5000   | 2500 | 131000           | 88500 | -    | 180400 | 135500 |  |
|                |          |          | 1100                        | 2000     | 1550 | 2600          | 2300 | 5400   | 2300 | 2600              | 2300 | 5400   | 2300 |                  |       |      |        |        |  |
|                | 24       | 1635     | 1100                        | 2000     | 1800 | 2600          | 2550 | 5400   | 2550 | 2600              | 2550 | 5400   | 2550 | 139000           | 93500 | -    | 196000 | 144200 |  |

# Technical Data

| Power Supply Plan | Speed : 1.0~2.5 m/s

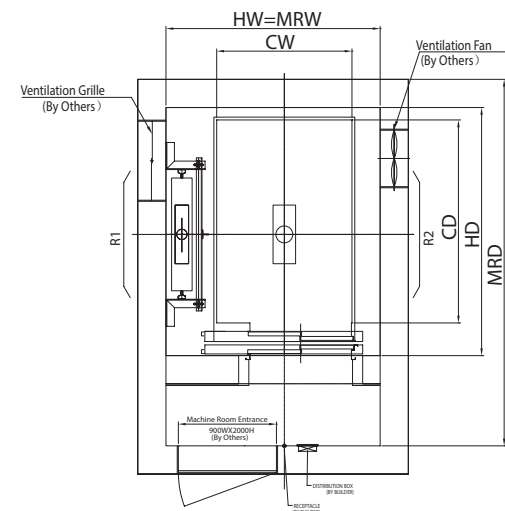
(380V)

| Speed<br>(m/s) | Capacity |          | Motor<br>Capacity<br>(kW) | MCCB Capacity of<br>Building (A) |        | Power Supply Capacity<br>(kVA) |        | Lead-in Wire Size<br>(mm <sup>2</sup> ) |        | Earth Wire Size<br>(mm <sup>2</sup> ) |        | Heat<br>Dissipation<br>(J/H) | Starting<br>Power<br>(KVA/set) |
|----------------|----------|----------|---------------------------|----------------------------------|--------|--------------------------------|--------|---|--------|---------------------------------------|--------|------------------------------|--------------------------------|
|                |          |          |                           | Simplex                          | Duplex | Simplex                        | Duplex | Simplex                                 | Duplex | Simplex                               | Duplex |                              |                                |
|                | Person   | Load(kg) |                           |                                  |        |                                |        |   |        |                                       |        |                              |                                |
| 1.0            | 6        | 450      | 3.9                       | 25                               | 25     | 5.3                            | 9.7    | 6                                       | 6      | 6                                     | 6      | 675                          | 7.8                            |
|                | 7        | 550      | 3.9                       | 25                               | 25     | 5.9                            | 10.8   | 6                                       | 6      | 6                                     | 6      | 825                          | 7.8                            |
|                | 8        | 630      | 3.9                       | 25                               | 25     | 6.3                            | 11.5   | 6                                       | 6      | 6                                     | 6      | 900                          | 7.8                            |
|                | 9        | 680      | 4.9                       | 25                               | 32     | 7.3                            | 13.4   | 6                                       | 6      | 6                                     | 6      | 1020                         | 9.8                            |
|                | 10       | 800      | 4.9                       | 25                               | 40     | 8.9                            | 16.2   | 6                                       | 6      | 6                                     | 6      | 1200                         | 9.8                            |
|                | 12       | 900      | 6.2                       | 25                               | 40     | 8.9                            | 16.2   | 6                                       | 6      | 6                                     | 6      | 1350                         | 12.4                           |
|                | 13       | 1000     | 6.2                       | 25                               | 50     | 9.8                            | 17.8   | 6                                       | 10     | 6                                     | 6      | 1500                         | 12.4                           |
|                | 15       | 1150     | 7.7                       | 32                               | 50     | 11.1                           | 20.3   | 6                                       | 10     | 6                                     | 6      | 1725                         | 16.4                           |
|                | 18       | 1350     | 9.0                       | 32                               | 75     | 13                             | 26     | 10                                      | 16     | 6                                     | 6      | 2025                         | 17.6                           |
|                | 21       | 1600     | 10.7                      | 40                               | 75     | 15.5                           | 31     | 10                                      | 16     | 6                                     | 10     | 2400                         | 21                             |
| 1.5            | 7        | 550      | 5.8                       | 25                               | 32     | 9.7                            | 17.7   | 6                                       | 10     | 6                                     | 6      | 1238                         | 11.6                           |
|                | 8        | 630      | 5.8                       | 25                               | 40     | 10.4                           | 18.9   | 6                                       | 10     | 6                                     | 6      | 1350                         | 11.6                           |
|                | 9        | 680      | 7.4                       | 25                               | 40     | 11.5                           | 20.9   | 6                                       | 10     | 6                                     | 6      | 1530                         | 14.8                           |
|                | 10       | 800      | 7.4                       | 32                               | 50     | 13.5                           | 24.6   | 10                                      | 10     | 6                                     | 6      | 1800                         | 14.8                           |
|                | 12       | 900      | 9.2                       | 32                               | 50     | 13.5                           | 24.6   | 10                                      | 16     | 6                                     | 6      | 2025                         | 18.4                           |
|                | 13       | 1000     | 9.2                       | 32                               | 60     | 14.9                           | 27.1   | 10                                      | 16     | 6                                     | 6      | 2250                         | 18.4                           |
|                | 15       | 1150     | 13.5                      | 40                               | 75     | 18.2                           | 33.1   | 16                                      | 16     | 6                                     | 6      | 2588                         | 24.6                           |
|                | 18       | 1350     | 15.8                      | 50                               | 100    | 21.2                           | 42.4   | 16                                      | 25     | 6                                     | 10     | 3038                         | 26.4                           |
|                | 21       | 1600     | 18.7                      | 60                               | 120    | 25.3                           | 50.5   | 16                                      | 35     | 6                                     | 10     | 3600                         | 31.4                           |
|                | 7        | 550      | 6.8                       | 25                               | 40     | 11.7                           | 21.4   | 6                                       | 10     | 6                                     | 6      | 1444                         | 13.6                           |
| 1.75           | 8        | 630      | 6.8                       | 25                               | 40     | 12.5                           | 22.8   | 6                                       | 10     | 6                                     | 6      | 1575                         | 13.6                           |
|                | 9        | 680      | 8.6                       | 25                               | 50     | 13.9                           | 25.2   | 6                                       | 10     | 6                                     | 6      | 1785                         | 17.2                           |
|                | 10       | 800      | 8.6                       | 32                               | 60     | 16.4                           | 29.8   | 10                                      | 10     | 6                                     | 6      | 2100                         | 17.2                           |
|                | 12       | 900      | 10.8                      | 32                               | 60     | 16.4                           | 29.8   | 10                                      | 16     | 6                                     | 6      | 2363                         | 21.6                           |
|                | 13       | 1000     | 10.8                      | 40                               | 75     | 18                             | 32.7   | 10                                      | 16     | 6                                     | 6      | 2625                         | 21.6                           |
|                | 15       | 1150     | 13.5                      | 50                               | 100    | 21                             | 38.2   | 16                                      | 25     | 6                                     | 10     | 3019                         | 28.6                           |
|                | 18       | 1350     | 15.8                      | 50                               | 100    | 24.4                           | 48.9   | 16                                      | 25     | 6                                     | 10     | 3544                         | 30.8                           |
|                | 21       | 1600     | 18.7                      | 60                               | 120    | 29.1                           | 58.3   | 16                                      | 35     | 6                                     | 10     | 4200                         | 36.6                           |
|                | 10       | 800      | 10.3                      | 40                               | 60     | 13.1                           | 23.8   | 10                                      | 25     | 6                                     | 10     | 2250                         | 20.6                           |
|                | 12       | 900      | 13.3                      | 40                               | 75     | 15.4                           | 28     | 16                                      | 35     | 6                                     | 10     | 2700                         | 26.6                           |
| 2.0            | 13       | 1000     | 13.3                      | 50                               | 100    | 17.1                           | 31.1   | 16                                      | 50     | 6                                     | 16     | 3000                         | 26.6                           |
|                | 15       | 1150     | 19.2                      | 50                               | 100    | 19.9                           | 36.1   | 16                                      | 50     | 6                                     | 16     | 3450                         | 32.6                           |
|                | 18       | 1350     | 22.6                      | 60                               | 100    | 21.6                           | 39.3   | 16                                      | 50     | 6                                     | 16     | 4050                         | 35.2                           |
|                | 21       | 1600     | 26.7                      | 75                               | 125    | 26.2                           | 47.6   | 16                                      | 70     | 10                                    | 25     | 4800                         | 41.8                           |
|                | 10       | 800      | 13.1                      | 50                               | 75     | 16.2                           | 29.5   | 16                                      | 35     | 6                                     | 10     | 2873                         | 26.2                           |
|                | 12       | 900      | 16.8                      | 50                               | 100    | 19                             | 34.5   | 16                                      | 50     | 6                                     | 16     | 3375                         | 33.6                           |
| 2.5            | 13       | 1000     | 16.8                      | 60                               | 100    | 21.1                           | 38.3   | 16                                      | 50     | 6                                     | 16     | 3750                         | 33.6                           |
|                | 15       | 1150     | 19.2                      | 60                               | 125    | 23.9                           | 43.6   | 16                                      | 70     | 6                                     | 25     | 4313                         | 40.8                           |
|                | 18       | 1350     | 22.6                      | 75                               | 125    | 26.2                           | 47.8   | 25                                      | 70     | 10                                    | 25     | 5063                         | 44.2                           |
|                | 21       | 1600     | 26.7                      | 100                              | 150    | 31.4                           | 57.2   | 25                                      | 70     | 10                                    | 25     | 6000                         | 52.2                           |
|                | 18       | 1350     | 22.1                      | 75                               | 125    | 26.2                           | 47.8   | 25                                      | 70     | 10                                    | 25     | 5063                         | 44.2                           |
|                | 21       | 1600     | 26.1                      | 100                              | 150    | 31.4                           | 57.2   | 25                                      | 70     | 10                                    | 25     | 6000                         | 52.2                           |

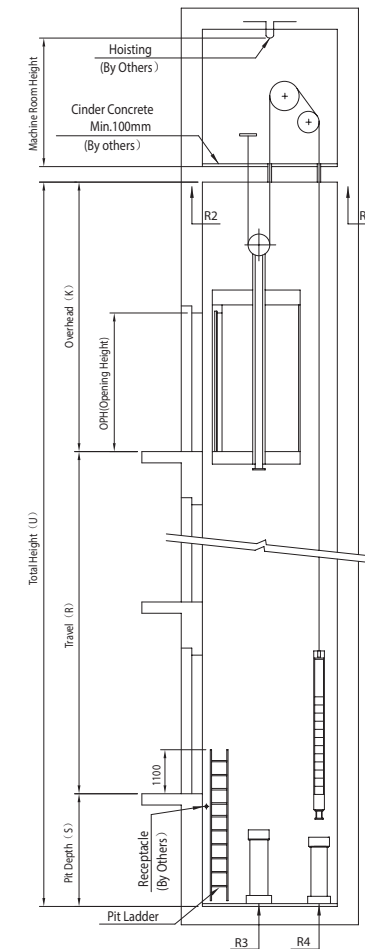


## Technical Data Hospital

## I Hoistway & Machine Room Plan



## I Hoistway Section



**| Layout Dimensions | Speed : 1.0m/s~2.5m/s**

**[Standard]**

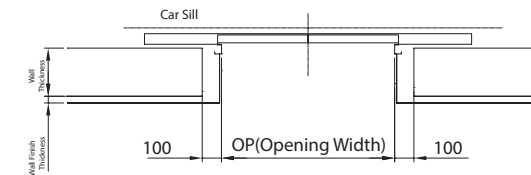
(Unit : mm)

| Speed<br>(m/s)  | Capacity |          | Entrance<br>Opening<br>(mm) | Car Size |      | Hoistway Size |      |        |      | Machine Room Size |      |        |      |      |
|-----------------|----------|----------|-----------------------------|----------|------|---------------|------|--------|------|-------------------|------|--------|------|------|
|                 |          |          |                             |          |      | Simplex       |      | Duplex |      | Simplex           |      | Duplex |      | MRH  |
|                 | Person   | Load(kg) |                             | CW       | CD   | HW            | HD   | HW     | HD   | MW                | MD   | MW     | MD   |      |
| 1.0<br>~<br>2.5 | 18       | 1350     | 1100                        | 1300     | 2300 | 2150          | 2750 | 4500   | 2750 | 2150              | 2750 | 4500   | 2750 | 2800 |
|                 | 21       | 1600     | 1100                        | 1500     | 2300 | 2350          | 2750 | 4900   | 2750 | 2350              | 2750 | 4900   | 2750 | 2800 |

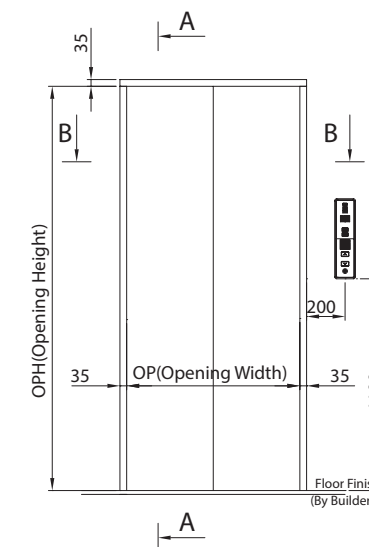
## Technical Data

### Narrow Jamb without Transom Panel

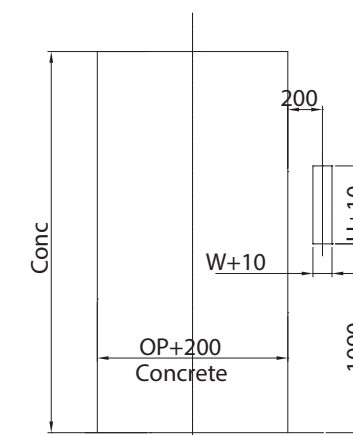
## Section B-B



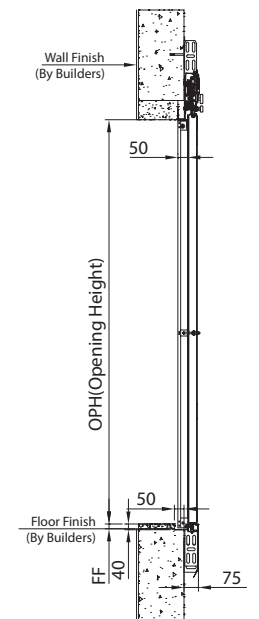
### Front View of Entrance



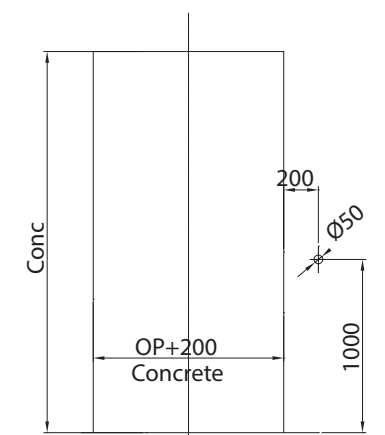
### Building Structure Plan (Normal Button)



## Section A-A



### Building Structure Plan (Slim Type Button)



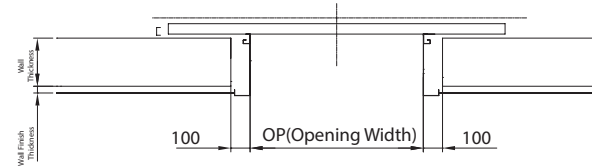
**Note** 1. «H» dimension in building structure plan depends upon the type of hall indicator selected.  
2. Unit : mm



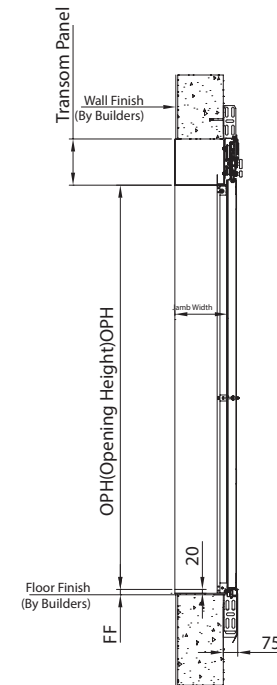
## Technical Data

### Wide Straight Jamb with Transom panel

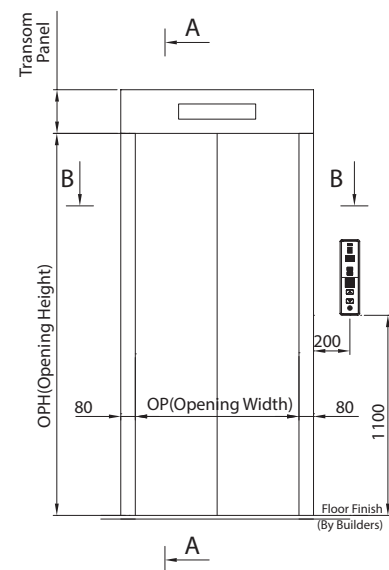
Section B-B



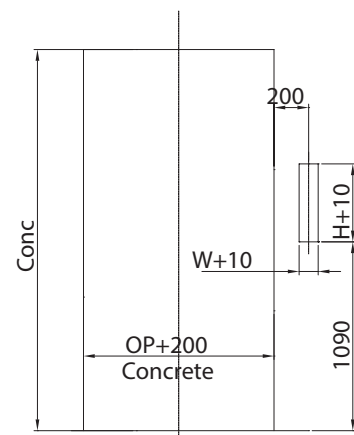
Section A-A



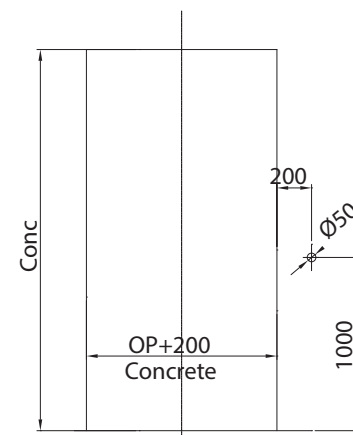
Front View of Entrance



Building Structure Plan (Normal Button)



Building Structure Plan (Slim Type Button)

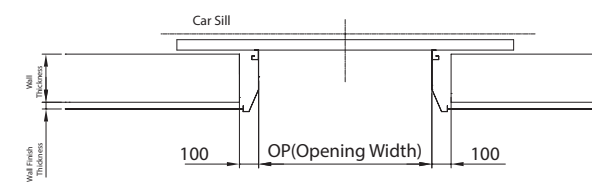


**Note** 1. «H» dimension in building structure plan depends upon the type of hall indicator selected.  
2. Unit : mm

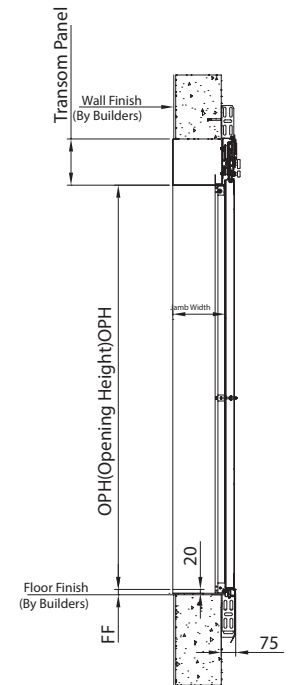
## Technical Data

### Wide Tapered Jamb with Transom panel

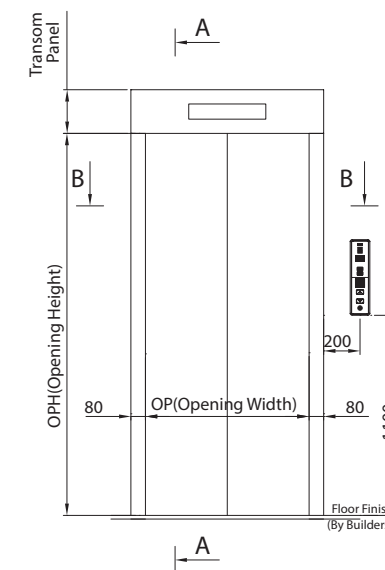
Section B-B



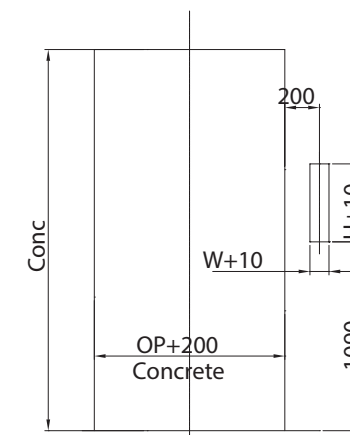
Section A-A



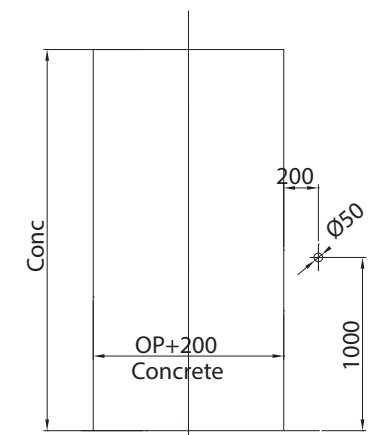
Front View of Entrance



Building Structure Plan (Normal Button)



Building Structure Plan (Slim Type Button)



**Note** 1. «H» dimension in building structure plan depends upon the type of hall indicator selected.  
2. Unit : mm



# Technical Data

## Technical Features

### | Operation Functions

● Standard   ○ Option

| Function                    | Description  |   |
|-----------------------------|--|---|
| Anti Crime Protection       | Anti-Crime Protection forces each car in the group to stop at a pre-determined floor and open its door. This allows a security guard or receptionist at the floor to visually inspect the passengers of the elevator before the car completes its run.   | ● |
| Advanced level Co Relevel   | Elevator will continue and run to nearest target floor and open the door (with voice broadcast), then go to main floor.  | ● |
| Cancel Error Calls          | Before the car starts, the registration of a call or operation can be canceled by double click of this button. After the car starts, registration cancel will not allowed for the sake of passengers' safety.  | ● |
| Blocking Floor              | Making hall call & registered orders in car null could be achieved through parameter setting. The function could be settled to work on clock, and can cancel hall call independently or inside registered car orders independently, or cancel both.  | ● |
| Delayed Car Protection      | If the door opened for a predetermined time due to constantly pressing the hall call button or other reasons, the elevator will be forced to close to respond other signals. And in case the elevator fails to carry out DCP force-closure, the elevator will stop and the inside or outside calls will be cancelled automatically. And the elevator will close again to normal operation till it detects the door is closed naturally.  | ● |
| Electronic Door Protection  | Electronic door protection for special purpose enhanced the safety of elevator, an infrared curtain can be formed in front of the car door, and a quick response to reopen will be implemented once something entering this area.  | ● |
| Emergency Light             | Emergency light in the car will start whenever there is a power cut.   | ● |
| Electrical Recall Operation | Emergency electrical operation of control box is available for rescue in machine room.   | ● |
| Load Non Stop               | When a car is loaded to a predetermined percentage of its capacity, it is considered 'full' and no additional passengers are allowed.<br>If the weight sensing device has detected full car load, the car will bypass further hall calls. The hall calls remain registered and will be served on the next trip (single car), or by another elevator (group).<br>Operation of the weight sensing device will not affect the stopping of the car in response to car but-tons. The passenger load value is set to appr. 80% of rated capacity | ● |
| Overload Protection         | If the load exceeds the rate load, the sound signal will be given out by speaker, and 'OVER LOAD' will be displayed, the car door will not close, the elevator will not start.   | ● |
| Door Nudging                | Function such as light moving continuously, door closing slowly, could be achieved through parameter setting with orders.  | ● |
| Hall door Re-open           | This function allows the door to reopen while there is a call in the same direction of the car during door closing process.  | ● |
| Safety landing              | When the elevator car stops outside of the door zone, and the control system still knows the car's position, the elevator car will park at the nearest service floor if the elevator passes the safety test by itself.   | ● |
| Top of Car Inspection       | The inspection operation switch and its push buttons and an emergency stopping device 'TES' shall be placed on the car roof that they are readily accessible.  | ● |
| Relevelling Operation       | When the load exceeds the value, stopping errors will be corrected by relevelling.   | ● |

### | Operation Functions

● Standard   ○ Option

| Function                           | Description   |   |
|------------------------------------|---|---|
| Unintended Car Movement Protection | Equipped with releveled, this function could stop elevator movement to protect passengers when un-intended moving in door area happens in door open status  | ● |
| Advanced Door Opening              | In order to accelerate traffic, automatic door opening starts while the elevator car approaches a landing. Following conditions apply:<br>● The car shall be within the unlocking zone<br>● The speed of levelling shall be limited.<br>Door Zone By-Pass:<br>The open door contacts shall be by-passed by a safety circuit which monitors these conditions.  | ● |
| Anti-Nuisance Car Call Protection  | If there is only one passenger in the car, and an excessive number of car calls is registered, nuisance is detected and all car calls will be canceled, requiring registration of a proper number of calls. The number of acceptable car calls is programmable; it is typically three (3). The passenger load value is set to 10% of the elevator rated load value.<br>ANSC Anti-Nuisance Car Call Protection (Car) Discrete load weighing under car  | ○ |
| Automatic Rescue Emergency Device  | This device is used for rescue operation in case of power shutdown, it is powered by a rechargeable battery, when a sudden power cut happens, device will move the car to nearest available floor, after checking the safety statue, and open the door to evacuate trapped passengers.  | ○ |
| Door hold button                   | Hold open button to extend door open time when many passengers enter the car. When the open signal is triggered, registered orders of car & hall will be delayed. Close button & order from car can end the door open signal. System in a group will give hall order to other elevator when the door is in open status.   | ○ |
| Emergency Fireman Operation        | Upon recognition of fireman's service, a car shall return non-stop to the designated return landing and park with the doors fully open. Then control system send signal to firemen center after successful landing.   | ○ |
| Emergency Fireman Service (manual) | "EFS" function isn't provided for abroad client at present, but the EFS electrical interface can be supplied. While the switch with lock is positioned start, EFS will be trigged to clear all the hall calls, and the car will response only to commands from the car, to go with the fireman elevator.  | ○ |
| Independent Service                | This function is designed for meeting customers' special needs. When switched on independent service the elevator will only answer any registered car call deviating from group control, regardless of the hall calls while opening or closing the door by manual control and operating according to customers' registered signals.   | ○ |
| Earthquake Operation               | Once an earthquake has happened, all the calls and operations will be cleared after the earthquake signal. The car will stop at the nearest floor to unload passengers.   | ○ |
| Emergency Power Operation          | This feature can only be used if the building is equipped with an emergency power generator. In case that regular power supply shuts down, the power supply of cars turns to Emergency Power, then cars in group except cars in inspection mode run to defined landings (or next landings,) one by one. After arrival to rescue position, the cars open doors and let passengers out. It's available to define a part of cars in group for normal service during EPO which is needed by some users. The return to full normal operation is done automatically when regular power supply is reestablished. | ○ |